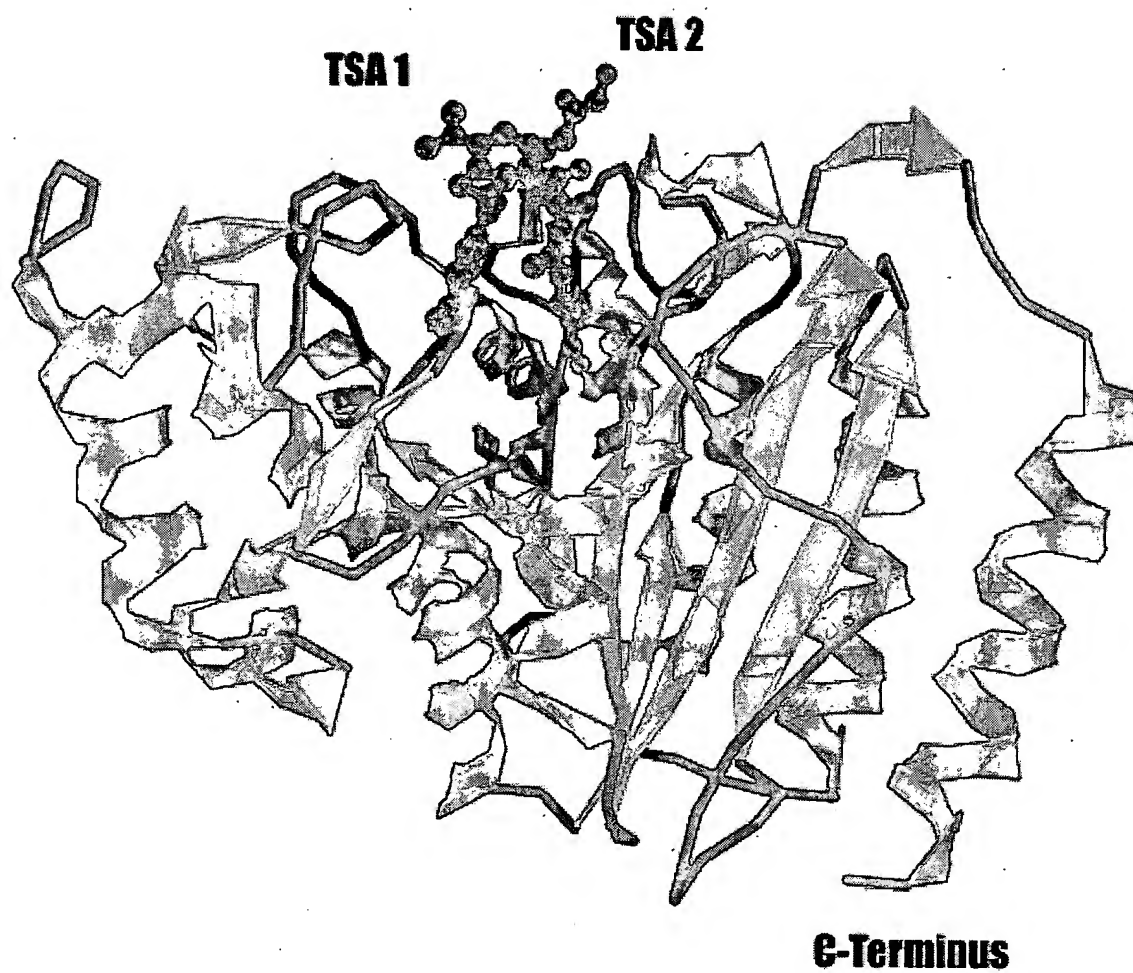
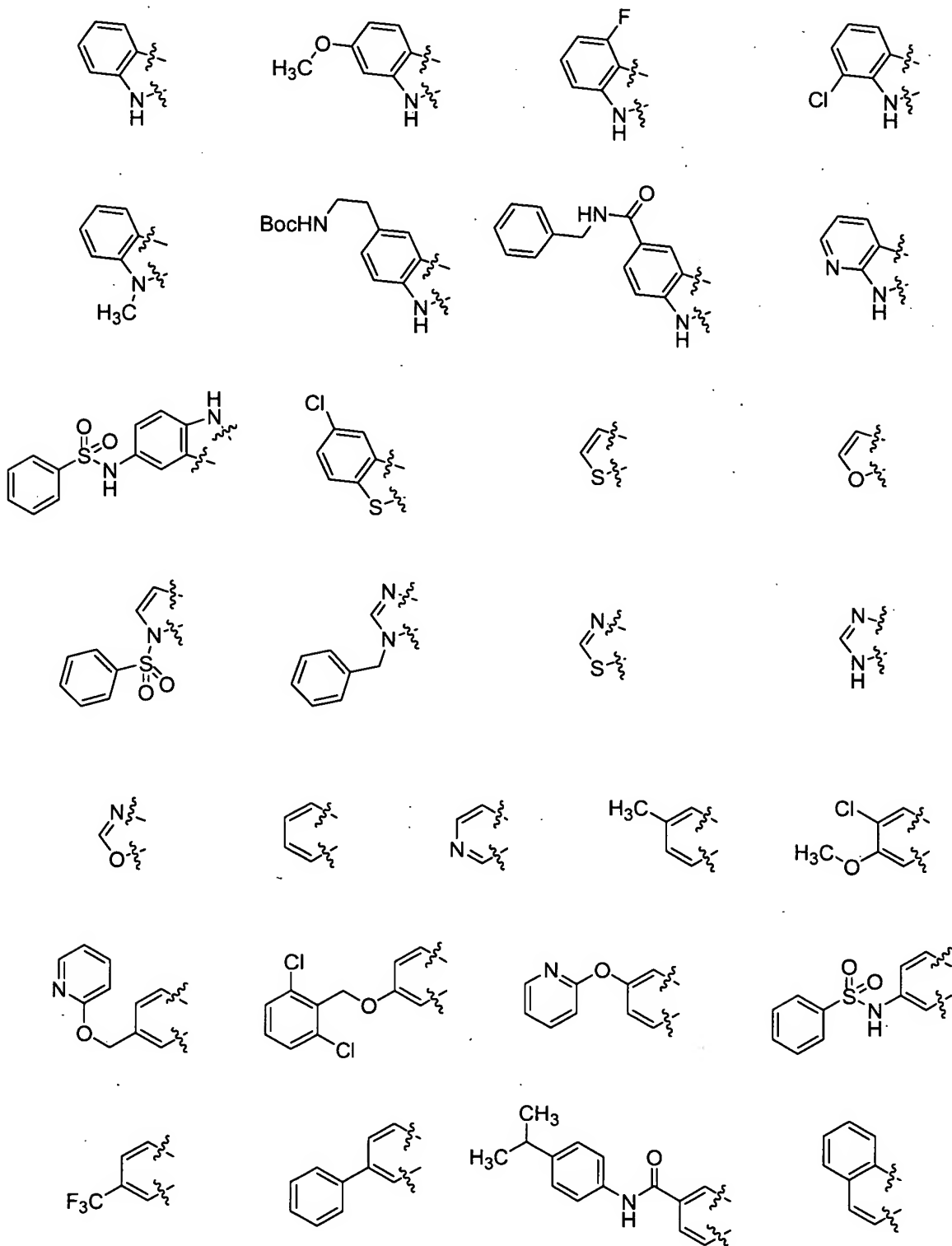


**FIGURE 1**



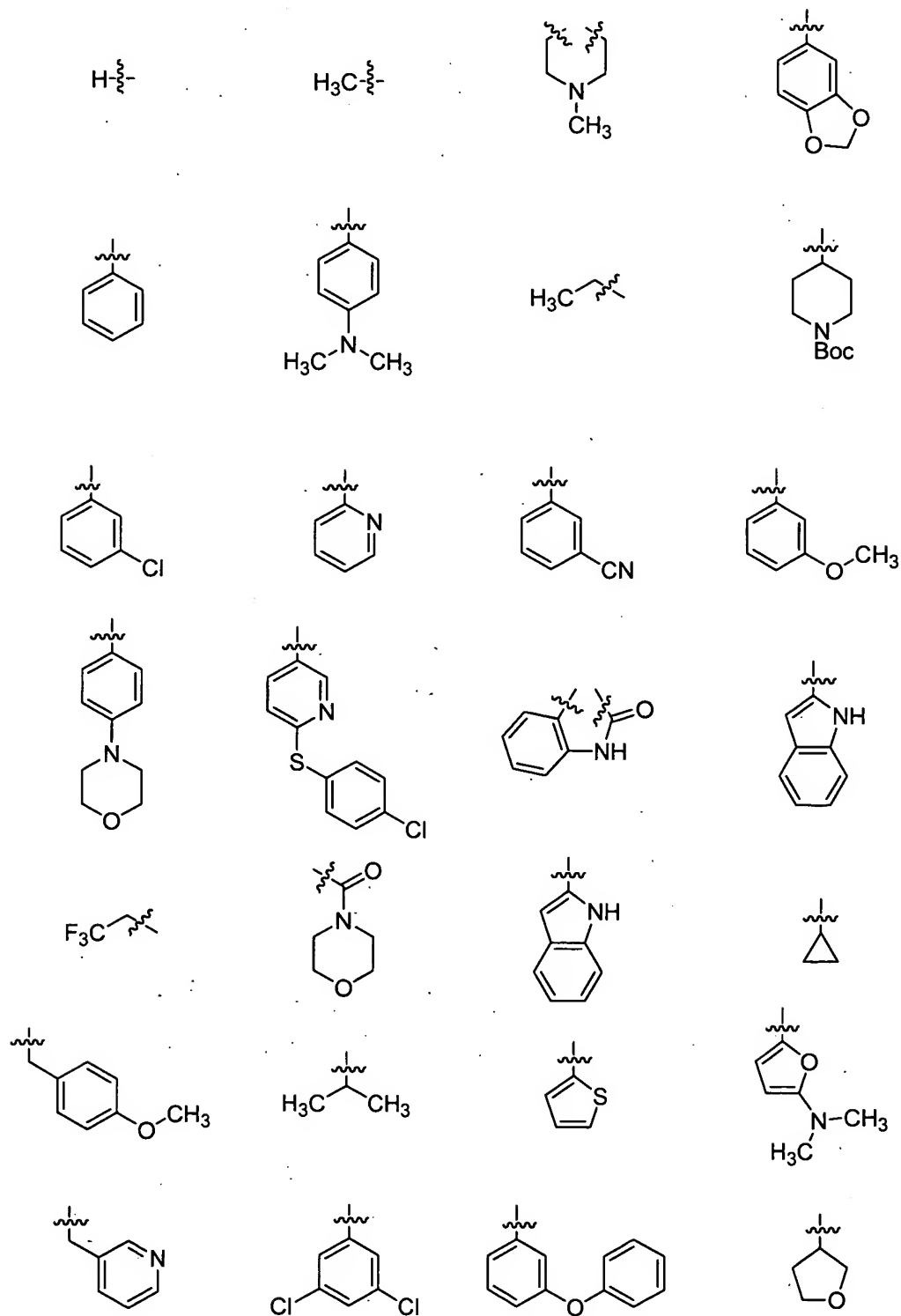
# FIGURE 2A

## Examples of R<sub>1</sub> and R<sub>2</sub> Substituents



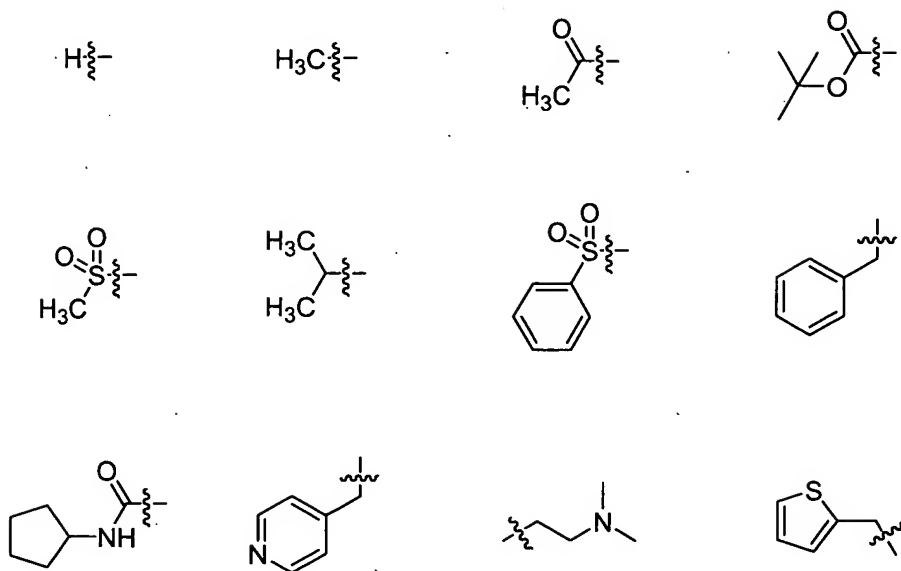
# FIGURE 2A (cont.)

## Examples of R<sub>3</sub> and R<sub>4</sub> Substituents

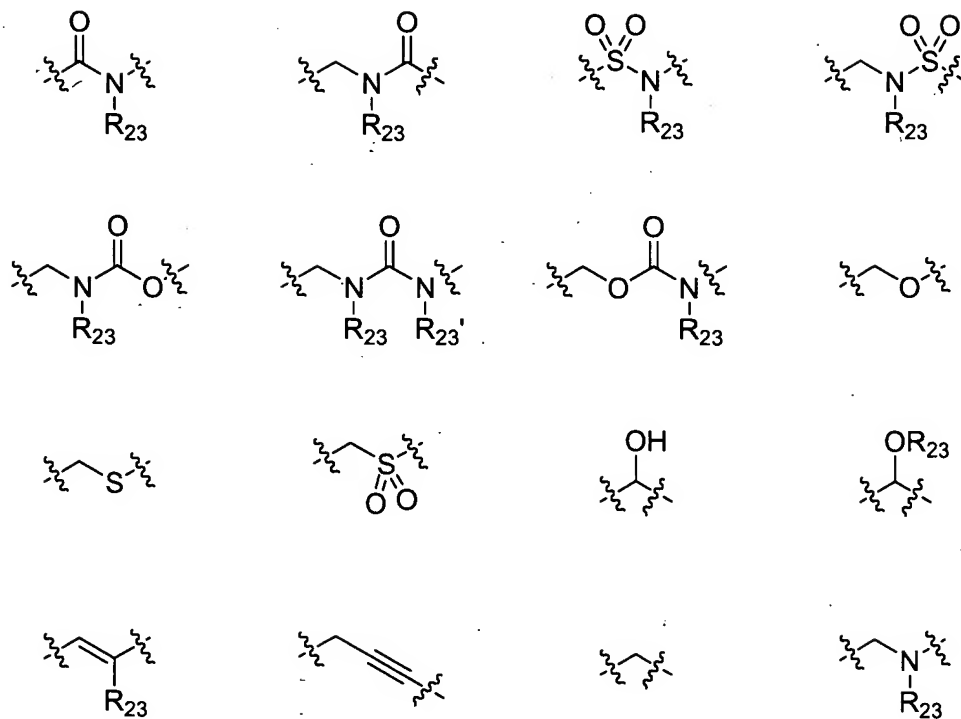


## FIGURE 2A (cont.)

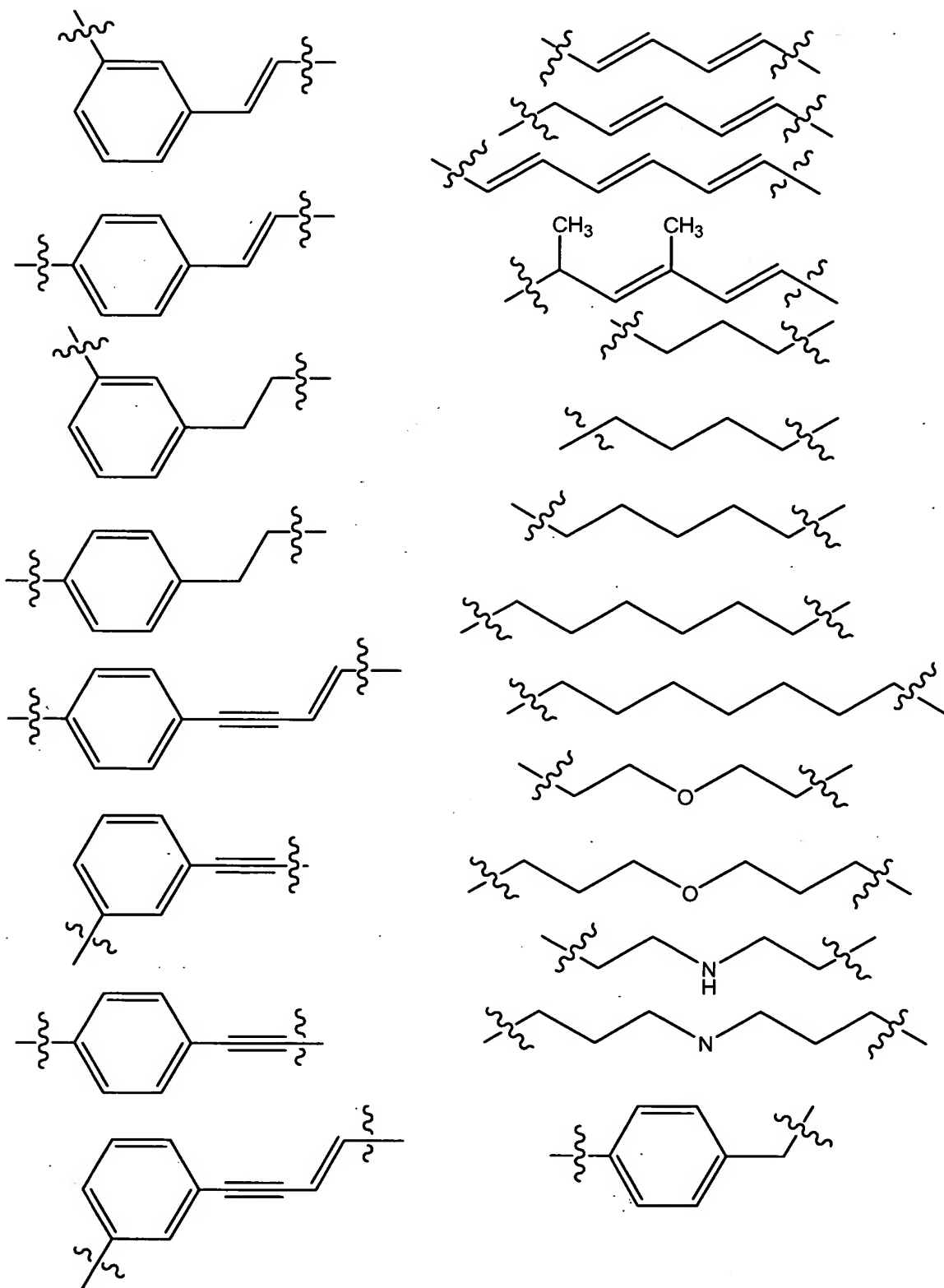
### Examples of R<sub>5</sub> Substituents



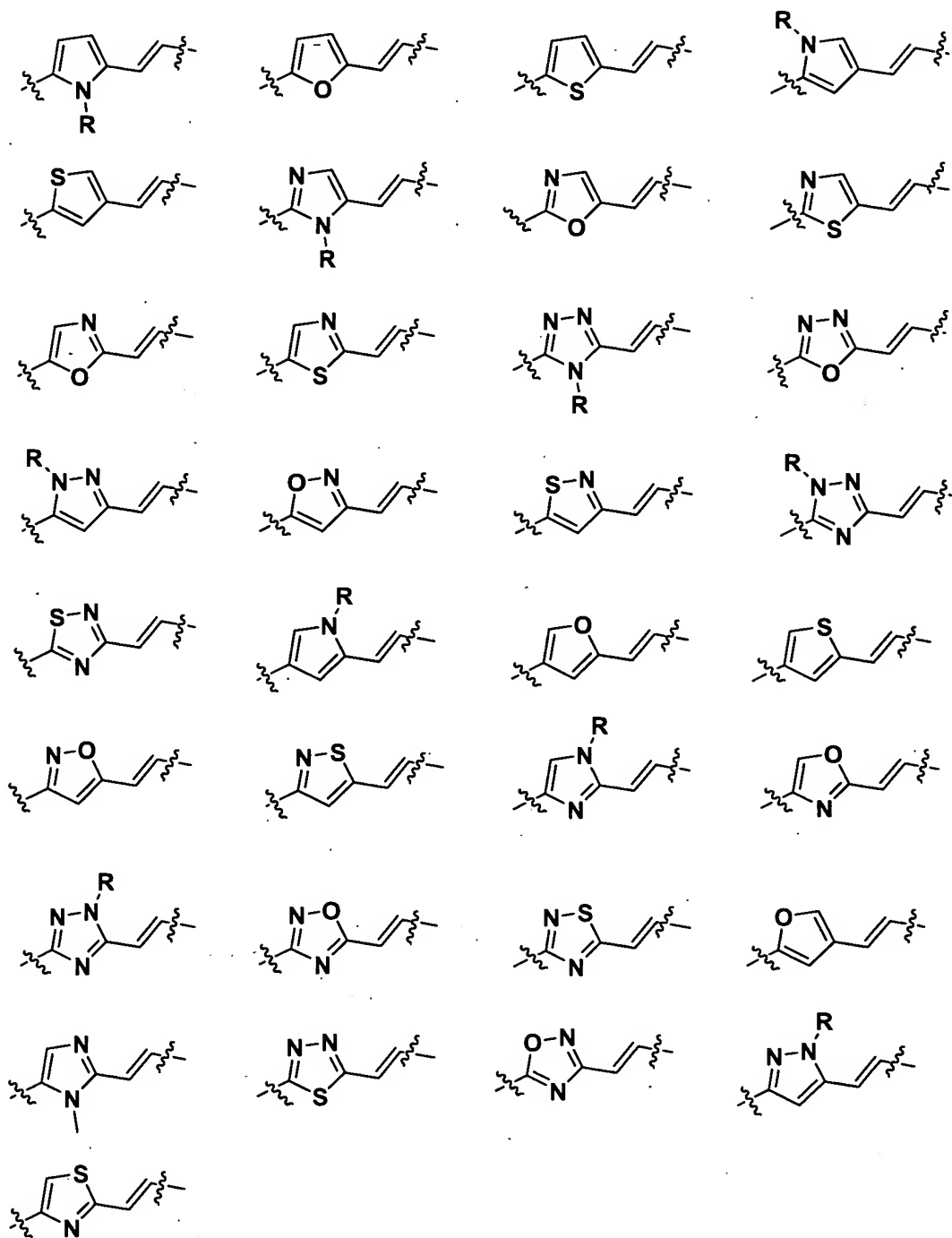
# FIGURE 2B



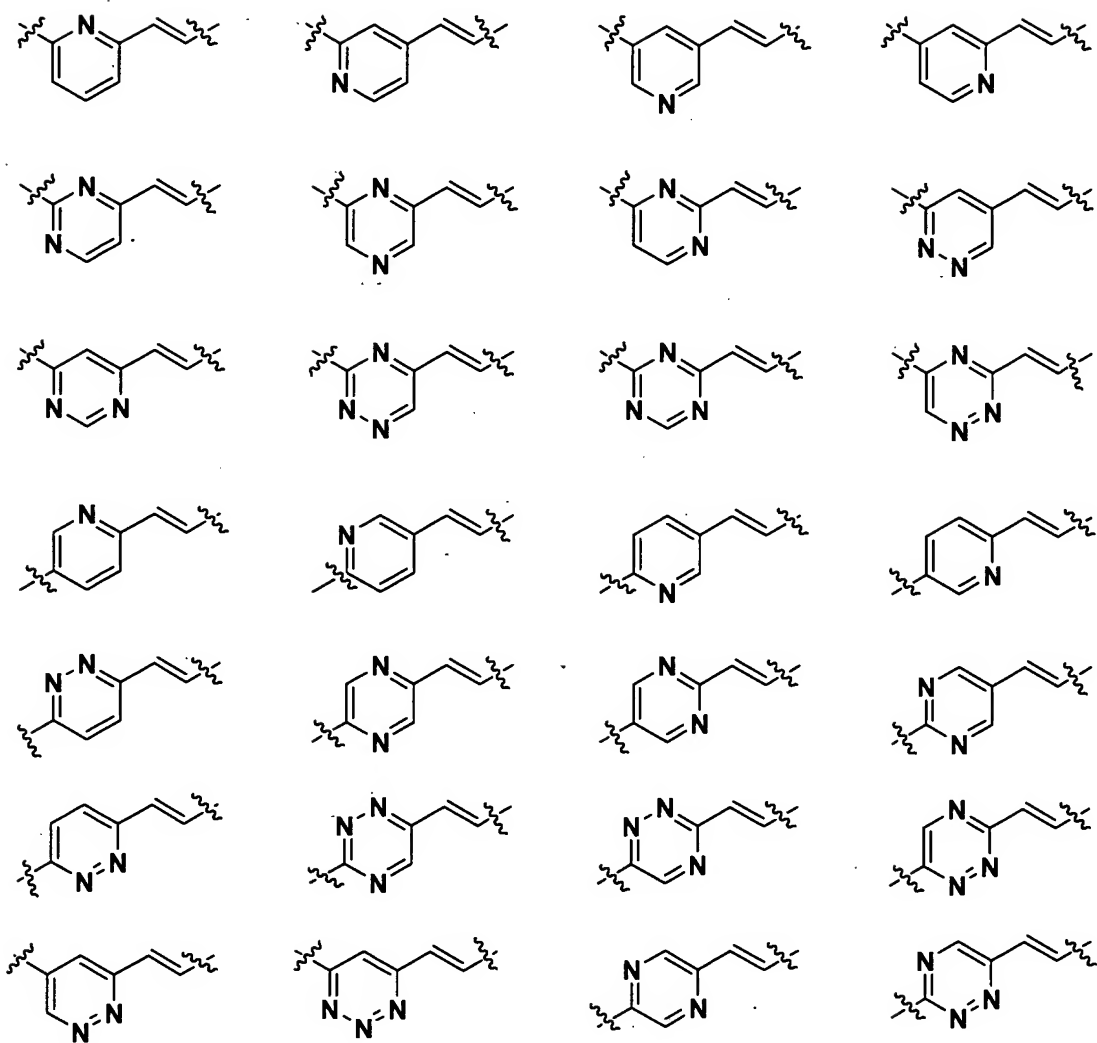
**FIGURE 2C**



**FIGURE 2C (cont.)**

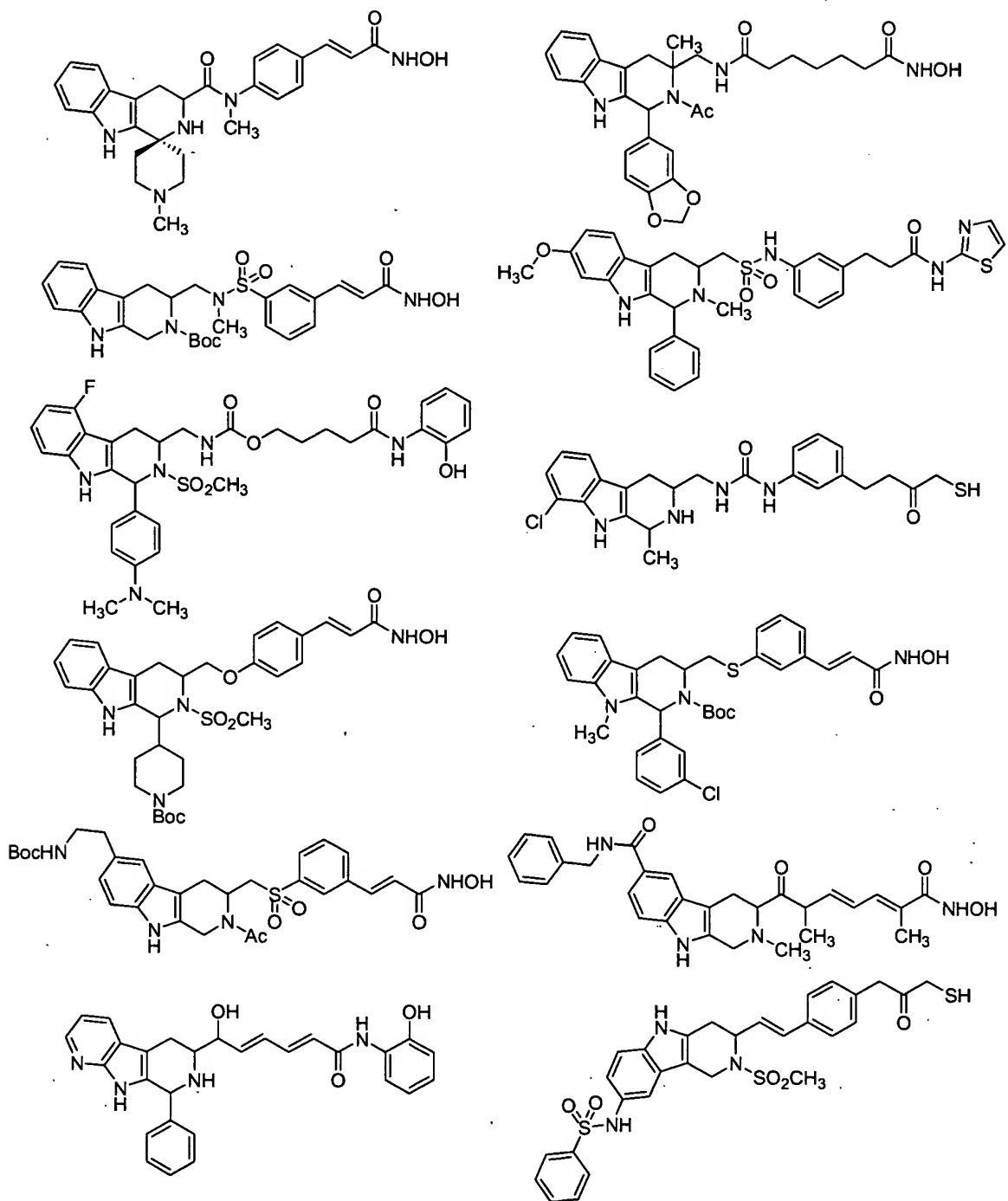


**FIGURE 2C (cont.)**

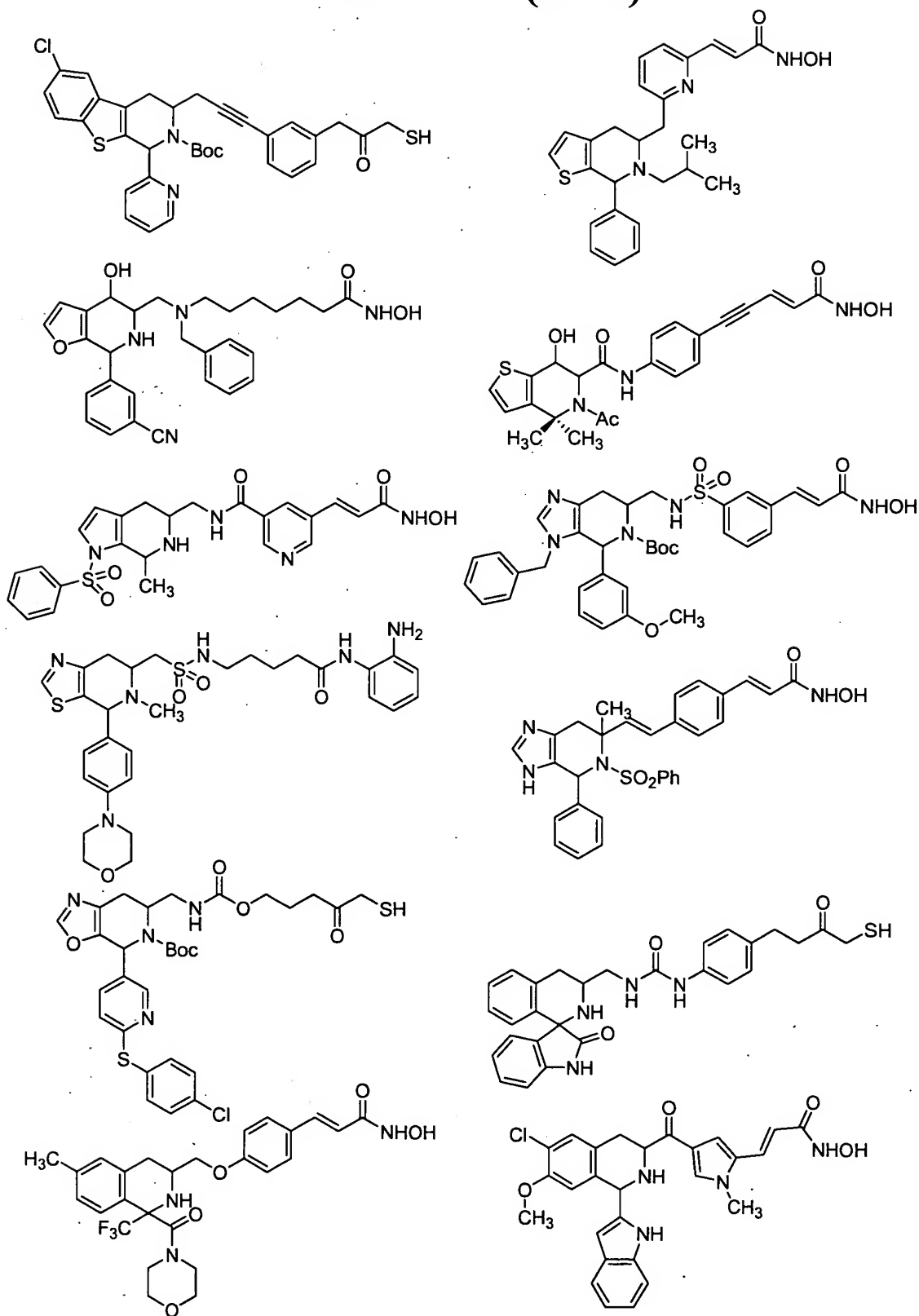




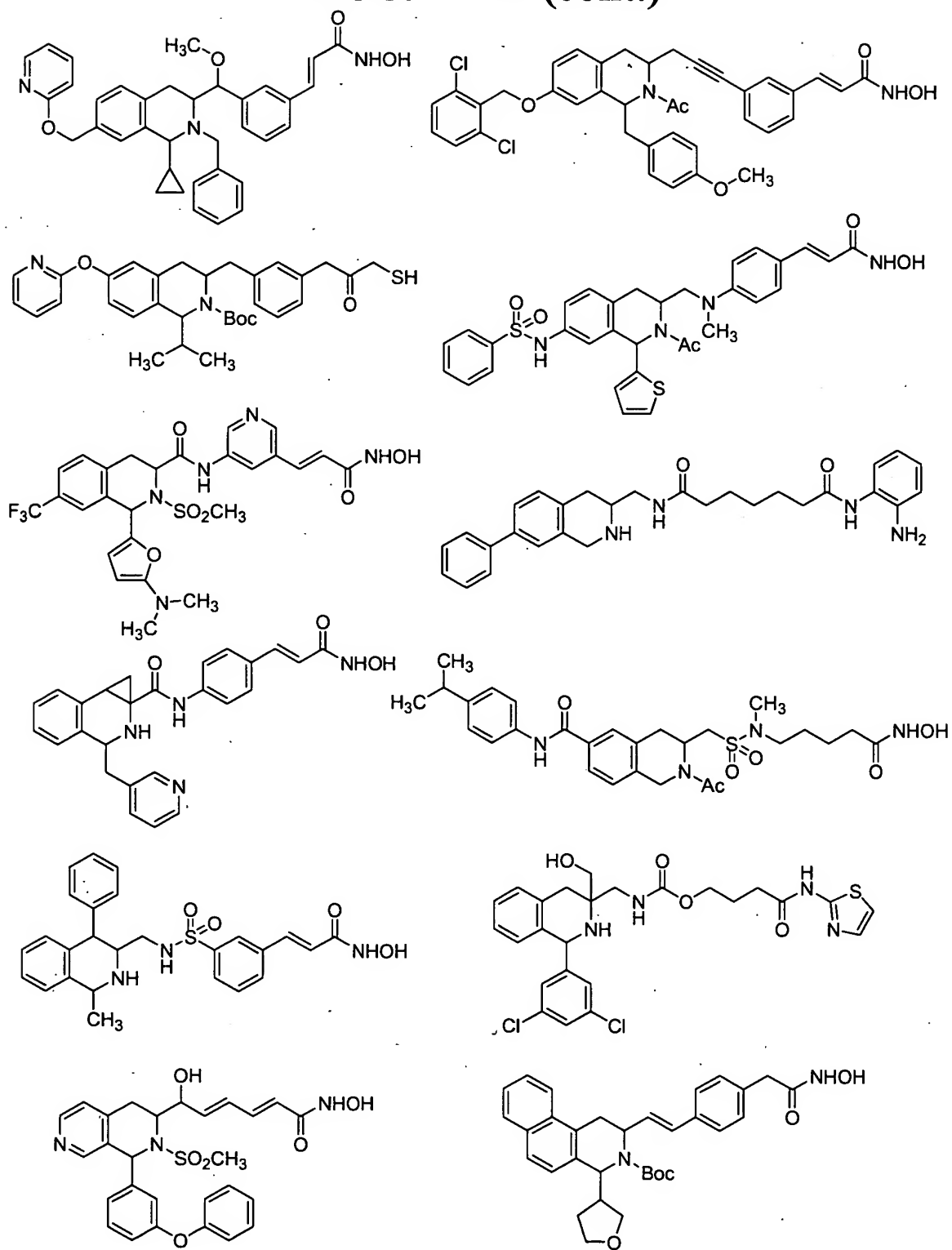
**FIGURE 2D**



**FIGURE 2D (cont.)**



**FIGURE 2D (cont.)**



## FIGURE 3

### Amino acid sequence for full length human wild type HDAC8 [SEQ. ID No. 1]

```

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRIVKPK 60
VASMEEMATFHTDAYLQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATI 120
TAAQCLIDGMCKVAINWSGGWHHAKKDEASGFCYLNDVGLGILRLRRKFERILYVDLDLH 180
HGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGWYYSVNVPIQDGIQDEKY 240
YQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTVPVGIGKCLKYILQWQLATLI 300
LGGGGYNLANTARCWTYLTGVILGKTLSSSEIPDHEFFTAYGPDYVLEITPSCRPDNRNEPH 360
RIQQILNLIKGNLKHVV 377

```

### Human cDNA sequence HDAC8 [SEQ. ID No. 2]

```

ATGGAGGAGCCGGAGGAACCGGCGGACAGTGGGCAGTCGCTGGTCCCGGTTTATATCTAT 60
AGTCCCAGATATGTCTAGTATGTGTGACTCCCTGGCCAAGATCCCCAAACGGGCCAGTATG 120
GTGCATTCTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAA 180
GTGGCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAG 240
AAGGTCAGCCAAGAGGGCGATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTAT 300
GACTGCCCAGCCACTGAAGGGATATTTGACTATGCAGCAGCTATAGGAGGGGCTACGATC 360
ACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAACCTGGTCTGGAGGG 420
TGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGTCCTG 480
GGAATATTACGATTGCGACGGAAATTTGAGCGTATTTCTCTACGTGGATTTGGATCTGCAC 540
CATGGAGATGGTGTAGAAGACGCATTCAGTTTCACTCCAAAGTCATGACCGTGTCCCTG 600
CACAAATTTCTCCCCAGGATTTTTCAGGAACAGGTGACGTGTCTGATGTTGGCCTAGGG 660
AAGGGATGGTACTACAGTGTAATGTGCCCATTCAGGATGGCATAACAAGATGAAAAATAT 720
TACCAGATCTGTGAAAGCGTACTAAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTG 780
GTCTTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAACATGACT 840
CCAGTGGGAATTGGCAAGTGTCTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATT 900
TTGGGAGGAGGAGGCTATAACCTTGCCAACACGGCTCGATGCTGGACATACCTTGACCGGG 960
GTCATCCTAGGGAAAACACTATCCTCTGAGATCCCAGATCATGAGTTTTTCACAGCATAT 1020
GGTCCTGATTATGTGCTGGAAATCACGCCAAGCTGCCGGCCAGACCGCAATGAGCCCCAC 1080
CGAATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAG 1134

```

## FIGURE 4

### Amino acid sequence for residues 1-377 of HDAC8 with a cleavable N-terminal

#### 6x-histidine tag [SEQ. ID No. 3]

#### (6x-histidine tag underlined)

```

MHHHHHHPMEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHK 60
QMRIVKPKVASMEEMAAFHFTDAYLQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYA 120
AAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEASGFCYLNDVGLGILRLRRKFERI 180
LYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRYYSVNVPIQ 240
DGIQDEKYYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTVPVGIGKCLKYIL 300
QWQLATLILGGGGYNLANTARCWTYLTGVILGKTLSSSEIPDHEFFTAYGPDYVLEITPSC 360
RPDRNEPHRIQQILNLIKGNLKHVV 385

```

**FIGURE 5**

